Notice of Allowability    10/617,816			
Notice of Allowability   Examiner   Taofig A. Solots   1925		Application No.	Applicant(s)
Tooling A. Solois  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address—All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included interestift for previously mailed, a Motice of Allowance (PTCL-85) or other appropriate communication will be mailed in the course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 3 CPT R1 313 and MEPE 1308.  1. □ This communication is responsive to the selephone interview of 4/11/07.  2. □ The allowed claim(s) islane 1-10, 18-22, 15-17, 26-22 (month 1-20 respectively).  3. □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  9. □ M. II o) □ Some c) □ None of the:  1. □ Certified copies of the priority documents have been received in Application No.  2. □ Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies of t	Maria at Allacate Hills.	10/517,816	CAVANI ET AL.
- The MAILING DATE of this communication appears on the cover sheat with the correspondence address— All claims being allowable, PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application. If not included the reviewit (or previously maided), a Notice of Allowance (PTOL-56) or other appropriate communication will be maided in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. Sea 57 CFT. 1318 and MFEP 1309.  1. □ This communication is responsive to the telephone Interview of 4/11/07.  2. □ The allowed claim(s) issue 1-10, 19-22 15-17, 29-27(mow 1-20 respectively).  3. □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some* (c) □ None of the:  1. □ Certified copies of the priority documents have been received in Application No.  2. □ Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  3. □ Copies of the cartified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  4. □ Cartified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  4. □ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENIDMENT or NOTICE OF (NFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. □ CORRECTED DRAWINIOS (as "replacement sheets") must be submitted.  (a) □ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) □ hereto or 2) □ to Paper No. Mail Date  (b) □ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948)	Nouce of Allowability	Examiner	Art Unit
All claims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application, in the male of induced nerverwith (or previously maind), a Notice of Allowance (PTOL-65) or other appropriate communication will be maled in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.318 and MFEP 1309.  1. This communication is responsive to the telephone intension of 4/11/07.  2. The allowed claim(s) issue 1.10, 19.22.15-17, 28-27/mow 1-20 respectively).  3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the cartified copies of the priority documents have been received in this national stage application from the International Burracu (PCT Rule 17.2(a)).  3. Certified copies on received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Faiture to timely comply will result in ABANDONMENT of this application.  1. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  4. A SUBSTITUTE OATH OR DECLARATION must be submitted.  (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) Interect or 2) In Paper No. Mail Date  (b) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) Interect or 2) In Paper No. Mail Date  (c) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948)  1. Notice of Informal Patent Application  Attachment(s)  1. December 3. Archivolation of Paper No. Mail Date 1  (d) Inc		Taofig A. Solola	1625
2. ☐ The allowed claim(s) Is/are 1-10.19-22.15-17.26-27/now.1-20 respectively).  3. ☑ Acknowledgitrient is made of a claim for foreign priority under 35 U.S.C. § 118(a)-(d) or (f).  a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No. ☐ Copies of the cartified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Ruf 17.2(a)).  **Certified copies not received: ☐ Periodic Model of the Copies not received: ☐ Periodic Notes the Stage application from the International Bureau (PCT Ruf 17.2(a)).  **Certified copies not received: ☐ Periodic Notes the Stage application from the International Bureau (PCT Ruf 17.2(a)).  **Certified Copies not received: ☐ Periodic Notes the Stage application from the International Bureau (PCT Ruf 17.2(a)).  **Certified Copies not received: ☐ Periodic Notes the Stage application from the International Bureau (PCT Ruf 17.2(a)).  **Certified Copies not received: ☐ Periodic Notes the Stage application from the International Bureau (PCT Ruf 17.2(a)).  **Applicant has THREE MONTH'S FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to time to time application.  **Papilicant has THREE MONTH'S FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to the Application is deficient.  **International Control of Periodic Notes and Periodic Notes and Periodic Notes and Periodic Notes and Periodic Notes (PCT-948) with the Notes of Draftsperson's Patent Drawing Review (PTO-948) established and Periodic Notes and Pe	All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communication of the subjection of	application. If not included in will be mailed in due course. THIS
3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S. €, § 198(a)-(d) or (f).  a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No			
a) All b) Some' c) None of the:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No	2. 1 ne allowed claim(s) is/are <u>1-10, 18-22, 15-17, 26-27(now</u>	1-20 respectively).	
2. ☐ Certified copies of the priority documents have been received in Application No	a) 🛛 All b) 🗋 Some* c) 🗍 None of the:		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
International Bureau (PCT Rule 17.2(a)).  **Certified copies not received:		•	
**Certified copies not received:		Contents note been received in fi	us nenonar siade abburaiton noùs ma
noted below. Fallurs to timely comply will result in ABANDOMMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5.  ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  1 ☐ dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be liabeled as such in the header according to 37 CFR 1.121(d).  6.  ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(s)  1.  ☐ Notice of References Cited (PTO-892)  2.  ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3.  ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  7.  ☐ Examiner's Amendment/Comment			•
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☐ hereto or 2) ☐ to Paper No.Mail Date  (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No.Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No.Mail Date  Paper No.Mail Date  7. ☑ Examiner's Amendment/Comment Primary Examiner of Reasons for Allowance of Biological Material  9. ☐ Other  10. ☐ Other  11. ☐ Notice of Information Disclosure Statement of Reasons for Allowance of Biological Material	noted below. Failure to timely comply will result in ABANDONA	of this communication to file a rep IENT of this application.	oly complying with the requirements
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  1) in hereto or 2) in Paper No./Mail Date	INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or decl	ER'S AMENDMENT or NOTICE OF aration is deficient.
1)  hereto or 2)  to Paper No./Mail Date  (b)  hickuding changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.12t(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(c)  1. Notice of References Cited (PTO-892)  2. Notice of Pafiperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  9. Other  1. Taofiq A. Solola/ Primary Examiner, Art Unit 1625			
(b)   including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date   Identifying Indicis such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(e) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  7. Examiner's Statement of Reasons for Allowance of Biological Material  8. Examiner's Statement of Reasons for Allowance of Disclosure Statement of Reasons for Allowance of Disclosure Statements (PTO-948) (Primary Examiner, Art Unit 1625)	(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Review (PT	O-948) attached
Paper No./Mail Date	1) hereto or 2) D to Paper No./Mail Date	2	
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. □ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(s)  1. □ Notice of References Cited (PTO-892)  2. □ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date □  4. □ Examiner's Amendment/Comment Patent Regarding Requirement for Deposit of Biological Material  7. ☑ Examiner's Statement of Reasons for Allowance of Biological Material  9. □ Other □  //Teofiq A. Solola/ Primary Examiner, Art Unit 1625	Paper No./Mail Date		
Attachment(s) 1.  Notice of References Cited (PTO-892) 2.  Notice of Draftperson's Patent Drawing Review (PTO-948) 3.  Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1 4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material  7.  Examiner's Statement of Reasons for Allowance of Biological Material  7.  Other	Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	i.84(c)) should be written on the dra the header according to 37 CFR 1.1	wings in the front (not the back) of 21(d).
1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other  //Taofiq A. Solola/ Primary Examiner, Art Unit 1625	<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	ISIT OF BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the IICAL MATERIAL.
1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other  //Taofiq A. Solola/ Primary Examiner, Art Unit 1625	•		
1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other  //Taofiq A. Solola/ Primary Examiner, Art Unit 1625			
1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other  //Taofiq A. Solola/ Primary Examiner, Art Unit 1625			
1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other  //Taofiq A. Solola/ Primary Examiner, Art Unit 1625		•	·
<ol> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Interview Summary (PTO-413),         Paper No./Mail Date         <ol> <li>Examiner's Amendment/Comment</li> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> <li>Other</li> </ol> </li> <li>Us. Patent and Trademark Office</li> </ol>			
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance 9. ☐ Other  // Teofiq A. Solola/ Primary Examiner, Art Unit 1625			
Paper No./Mail Date 1 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  8. Examiner's Statement of Reasons for Allowance of Biological Material  9. Other  //Teofiq A. Solola/ Primary Examiner, Art Unit 1625		Paper No./Mail I	Date
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  9. ☐ Other  //Teofiq A. Solola/ Primary Examiner, Art Unit 1625		7. Examiner's Amer	ndment/Comment
9: Other  /Taofiq A. Solola/ Primary Examiner, Art Unit 1625	4.   Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's State	ment of Reasons for Allowance
Primary Examiner, Art Unit 1625  U.S. Patent and Trademark Office		9. Other	
THE TABLE OF THE PROPERTY OF T		office of Allowability	Part of Paper No./Mail Date 1

Application/Control Number: 10/517,816

Art Unit: 1625

Examiner's Amendment

Page 2

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Virgil Marsh on 4/11/07.

Claims 11-14 and 23-25 are deleted.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the invention relates to a catalyst and a process of using it for preparing phthalic anhydride. The catalyst comprises 2-15% vanadium, 1-15% tin, 70-97% titanium oxide and optionally up to 5% of at least one alkali metal. Many prior arts of record disclose similar catalyst but the exact percents of the elements are different. For example, DE 1943759 discloses 84-87.5% titanium, 10-12% vanadium, 2-3% potassium sulphates, and optionally up to 0.5% ZrO<sub>2</sub>. EP 0985648 discloses 75-90% titanium, 10-20% vanadium, 1.0-3.5% phosphorous or cesium and 0.1-2% alkali metal. US 4,469,878, discloses 67-94% titanium, 0.7-30% vanadium and 0.7-3% rubidium or 0.1-1% tin and 0.5-3% phosphorus. US '878 has tin but also has phosphorus in the same composition in place of rubidium, and requires two catalysts compositions in a single process of preparing phthalic anhydride. The instant invention requires only one catalyst composition for the same process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the

Application/Control Number: 10/517,816

Art Unit: 1625

Page 3

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taofiq A. Solola, PhD. JD., whose telephone number is (571) 272-0709.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Thomas McKenzie, can be reached on (571) 272-0670. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

/Taofiq A. Solola/

Primary Examiner, Art Unit 1625

April 12, 2007